

Bowker, 1674

**Astronomical and Chronological:
OR, AN**

For the Year of our Lord God,

Being the second after the Leap-Year.

Calculated principally for the Meridian of

AND

Directions, for the Accommodation and Use of

Merchants, **&** *Mariners,*
Travellers, **&** *Mathematicians,*
Tradesmen, **&** *Astrologers.*

By

Astrophilo.

Printed by *for*
the Company of Stationers. 1674.

**Common Notes and Moveable Feasts for this
Year 1674. according to the Account**

Julian, or English.		The Golden Number	Gregorian or Forcin.
	3	The Cycle of the Sun	3
	3	Dominical Letter	3
	3	The Epact	23
March 1		Shrove-Sunday	4 February
April 19		Easter-day.	25 March
May 24		Rogation Sunday	29 April
May 28		Ascension day	3 May
June 7		Whitsunday	13 May
June 14		Trinity-Sunday	20 May
November 29		Advent-Sunday	2 December

No Marriage without a Licence.

From $\left\{ \begin{array}{l} \text{The beginning of the year till January 14.} \\ \text{February 15. to April 27.} \\ \text{May 24. till June 14.} \\ \text{November 29 to the years end.} \end{array} \right.$

VENUS is our bright Morning Star from the beginning of the year till April 13. and then she becomes Occidental, and will be our Evening Star from that time to the years end.

A New Size of **GLOBES** of about 15 inches Diameter, made according to the more accurate Observations and Discoveries of our modern Astronomers and Geographers, much differing from all that were ever yet extant. Made and sold by Robert Morden at the Sign of Ailes in Cornhill near the Royal Exchange. He maketh all sorts of Spheres and Globes, and selleth all sorts of Maps both general and particular; all Sea-Plats for several Navigations, and divers Astronomical and Geometrical Schemes and Instruments.

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The Beginning, Ending and Returns of the Terms.

Return days, or days of Effoin.	Days of Except.	Return Brevium	Days of Appearance.
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Hilary-Term begins January 23. and ends Febr. 12.

<i>Octab. Hil.</i>	<i>Janua. 20</i>	21	22	23
<i>Quind. Mill.</i>	<i>Jan. 27</i>	28	29	30
<i>Craft. Purif.</i>	<i>Feb. 3</i>	4	5	6
<i>Octab. Purif.</i>	<i>Feb. 10</i>	11	12	12

Easter-Term begins May 6, ends June 1.

<i>Quind Pasch.</i>	<i>May 4</i>	4	5	6
<i>Tres. Pasch.</i>	<i>May 11</i>	12	13	14
<i>Mens. Pasch.</i>	<i>May 18</i>	19	20	21
<i>Quinq. Pasch.</i>	<i>May 25</i>	26	27	28
<i>Craft. Ascens.</i>	<i>May 29</i>	30	31	<i>June 1</i>

Trinity-Term begins June 19. and ends July 8.

<i>Craft. Trin.</i>	<i>June 15</i>	16	17	18
<i>Octab. Trin.</i>	<i>June 2</i>	23	24	25
<i>Quind. Trin.</i>	<i>June 29</i>	30	30	<i>July 1</i>
<i>Tres. Trin.</i>	<i>July 7</i>	7	8	8

Michaelmas-Term begins Octob. 23. ends Nov. 28.

<i>Tres. Mich.</i>	<i>Octob. 20</i>	21	22	23
<i>Mens. Mich.</i>	<i>Octob. 27</i>	28	29	30
<i>Craft. Anim.</i>	<i>Nov. 3</i>	4	5	6
<i>Octab. Mart.</i>	<i>Nov. 12</i>	13	14	16
<i>Craft. Mart.</i>	<i>Nov. 19</i>	20	21	23
<i>Quind. Mart.</i>	<i>Nov. 26</i>	27	28	28

The Exchequer opens 8 days before any Term begins, except Trinity, before which it opens but four days.

Goole goes to Law for Courzen Ganders Lands,
And Fox the Lawyer takes the Cause in hand :
Who (for his Counsel) taketh Fees of either,
And in the end leaves neither worth a Feather.
Now comes the Term and Judgment must proceed,
Fools they sell out, and Beggers they agreed.

A Table shewing the time of High Water in all the Ports below mentioned.

D Age.	Hours an Minutes to be added.		The Names of the Ports.	Ho. Mi	
	Ho.	Mi		Ho.	Mi
1 0	49		Queenborough, Southampton, Portsmouth,	0	0
2 1	38		Rocheſter, Maldon, Blacktail,	0	45
3 2	26		Graveſend, Dover, Blackneſs, Silly,	1	30
4 3	15		Dundee, St. Andrews, Liſbon, Lucas,	2	15
5 4	3		London, Tinmouth, Amſterdam, Rotterdam	3	0
6 4	53		Barwick, Fluſhing, Flamborough,	3	45
7 5	41		Baltamoor, Corke, Severn, Callice,	4	30
8 6	30		Falmouth, Humber, New-Caſtle,	5	15
9 7	19		Plimouth, Hull, Lin, St. Davids,	6	0
10 8	8		Briſtol, Start-point, Waterford,	6	45
11 8	56		Milford, Bridgwater, Lands-end,	7	30
12 9	45		Portland, Hartſlew, Dublin,	8	15
13 10	34		Pool, Iſle of Man, Dunbar, Diſce,	9	0
14 11	23		Needles, Orford, South and N. Forelands,	9	45
15 12	11		Yarmouth, Dover, Harwich,	10	30
16 0	0		Rie, Wincheſſey, Colſhot,	11	15

The uſe of theſe Tide-Tables.

IN the Table following, you have the Ds age every day of the year, which being known, ſeek the Moons age in this Table, and ſee what hours and minutes ſtand againſt it, thoſe hours and minutes being added to the hours and minutes which ſtand againſt the name of the place you would know the time of High-water at, will give you the time of high water at that place.

Example.

If you would know what time it will be High-water at Graveſend, upon the 29 day of January, look in the Calendar and againſt the 10 day of January, you ſhall find the Moon is 12 days old: wherefore find 12 days in this Table under (C Age) and againſt it you ſhall find 10 h. 34 m. which being added to 1 h. 30 m. (the hours and minutes ſtanding againſt Graveſend) the ſum is 12 h. 4 m. at which time it will be high water at Graveſend on the 10 of January afternoon. But if the hours and minutes added together exceed 12 hours, you muſt caſt away 12 hours, and the time of high water will remain. So on the 6 of January, the Moon being 9 days old, the hours and min. againſt 9 days old are 7 h. 19 min. which added to 10 h. 30 m. (the hours and min. ſtanding againſt Dover) make 17 h. 49 m. from which take 12 h. and there remains, 5 h. 49 m. at which time, it will be high water at Dover the 6 of January.

Month-Days.

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A Table of the Moons Age every day.

Month-Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	4	6	4	5	6	7	8	9	11	12	13	14
2	5	7	5	6	7	8	9	10	12	13	14	15
3	6	8	6	7	8	9	10	11	13	14	15	16
4	7	9	7	8	9	10	11	12	14	15	16	17
5	8	10	8	9	10	11	12	13	15	16	17	18
6	9	11	9	10	11	12	13	14	16	17	18	19
7	10	12	10	11	12	13	14	15	17	18	19	20
8	11	13	11	12	13	14	15	16	18	19	20	21
9	12	14	12	13	14	15	16	17	19	20	21	22
10	13	15	13	14	15	16	17	18	20	21	22	23
11	14	16	14	15	16	17	18	19	21	22	23	24
12	15	17	15	16	17	18	19	20	22	23	24	25
13	16	18	16	17	18	19	20	21	23	24	25	26
14	17	19	17	18	19	20	21	22	24	25	26	27
15	18	20	18	19	20	21	22	23	25	26	27	28
16	19	21	19	20	21	22	23	24	26	27	28	29
17	20	22	20	21	22	23	24	25	27	28	29	30
18	21	23	21	22	23	24	25	26	28	29	30	31
19	22	24	22	23	24	25	26	27	29	30	31	
20	23	25	23	24	25	26	27	28	30			
21	24	26	24	25	26	27	28	29				
22	25	27	25	26	27	28	29					
23	26	28	26	27	28	29						
24	27	29	27	28	29							
25	28		28	29								
26		1	29		1	2	3	4	5	6	7	8
27	1	2		1	2	3	4	5	6	7	8	9
28	2	3	1	2	3	4	5	6	7	8	9	10
29	3		2	3	4	5	6	7	8	9	10	11
30		3	3	4	5	6	7	8	9	10	11	12
31			4	5	6	7	8	9	10	11	12	13

*A brief Chronology of some memorable things since
the Conquest.*

Since	E ngland was Conquered by Duke William	638
	London Bridge was built of Stone	465
	Guns were invented	296
	Printing of Books was invented	234
	Henry the Eighth Conquered Bulloign	131
	Coaches were first used in England	119
	Pauls Steeple was Fired by Lightning	113
	The Massacre in France	102
	Tilbury Camp	86
	The Gun-Powder Teason Novemb. 5.	69
	King Charles the 1 was Born	74
	30578, died of the Plague in London	71
	The great Frost	67
	Prince Henry died	63
	The Great Snow.	58
	The Blazing-Star in November, 1618.	56
	Sir Walter Rawleigh was beheaded	56
	Queen Anne died	55
	Prince Charles went to Spain	62
	The Fall at Black-Friers	51
	The Cruelty committed at Amboyna	50
	54265, died of the Plague in London	49
	The Voyage to the Isle of Rhee	47
	The Duke of Buckingham was Stabb'd	46
	King Charles the 11. was Born, May 29	44
	St. Pauls Cathedral began to be repaired	40
	The Hollanders met the Spaniards in the Downs and Fought them	35
	The Long Parliament began, Novemb. 3.	34
	The Rebellion in Ireland brake out	33
	Edge-Hill Fight	32
	Brinsford Fight	31
	Newbury first Battel, Sept. 20.	30
	The Scotch Army of 20000. entred England	30
	Marston Moor Fight	30

	The Bishop of <i>Canterbury</i> was beheaded	29
	<i>Newbery</i> second Fight, <i>Octob. 28.</i>	29
	<i>Naseby</i> Fight, <i>June 14.</i>	29
	The <i>Scots</i> were Routed in <i>Lancashire</i>	26
	King <i>Charles the I.</i> was murdered	26
	Duke <i>Hamilton</i> , Lord <i>Capel</i> , and Earl of <i>Holland</i> } were beheaded	26
	<i>Colchester</i> was taken	26
	<i>Worcester</i> Fight, <i>Septemb. 3.</i>	23
	The Long Parliament dissolved by <i>O. C.</i>	21
	The Great Fight at Sea between the <i>English</i> and } the <i>Dutch</i> , and the <i>Dutch</i> beaten, <i>June 23.</i>	21
	Usurping <i>Oliv. Cromw.</i> took the Government	20
	<i>Dunkirk</i> was delivered to the <i>English</i>	16
	Sir <i>H. A. Slingsby</i> , and Dr. <i>Hewet</i> Beheaded	16
	<i>Usher</i> , in, <i>Commonwealth</i> died, <i>Sept. 3.</i>	15
	Gen. <i>Blanchard</i> marched to <i>London</i>	15
	He brought the Secluded Members to the House	14
	The Parliament began, <i>April 25.</i>	14
	King <i>Charles the II.</i> arrived in <i>London</i> , <i>May 29.</i>	14
	<i>Harrison</i> and the rest of the Regicides were Exc- } cuted at <i>Charing-Cross</i>	14
	King <i>Charles the II.</i> was Crowned, <i>April 23.</i>	14
	Three Comets appeared	9
	The first great Sea-Fight between the <i>Dutch</i> and } <i>English</i> , wherein the <i>Dutch</i> were beaten, and } 21 Ships taken	9
	97351 died in one year in <i>London</i> , whereof of the } <i>Plague 68586</i>	9
	The second Fight with the <i>Dutch</i> , <i>June 1, 2, 3.</i>	8
	The third Fight with the <i>Dutch</i>	8
	There was about 13200. Houses burnt in <i>London</i> , } <i>September 2, 3, and 4 days</i>	8
	The Treaty with the <i>Dutch</i>	6
	Two Whales came up the <i>Thames</i> , one to <i>Graves-</i> } <i>end</i> , the other to <i>Greenwich</i> , <i>August 9.</i>	5
	<i>London</i> after its utter ruine by fire rebuild'd	3

January hath xxxi. day.

- ☾ First quarter the 5. day, 17 min. past 4 in the morn.
- ☾ Full Moon the 12. day, at 22 min. after 5 morning.
- ☾ Last quarter the 18. day, 9 min. after 9 at night.
- New Moon the 26. day, at 41 min. past 8 at night.

*Beware of Cold, to bleed or bathe take heed,
A good warm Coat this Moneth thy Back will need.*

1	a	Circumcision	21	47	10	4	☐♂☾6 p. Fair
2	b	Isidore	22	48	21	56	and frosty wea-
3	c	Meliorus	23	49	3	56	♂h☾10 p. ther
4	d	Croniacus	24	50	16	6	begins the moneth.
5	e	Simeon	25	52	28	32	*☾☽0 Warm
6	f	Epiphani	26	52	11	18	☐☾☽8 p. air
7	g	Julian M.	27	54	24	28	and Northerly
8	a	Lucian	28	55	8	II	6 Wind.
9	b	Adrian Abb.	29	56	22	11	☐☽☾6 p.
10	c	Paul E. cm.	0	58	6	44	☐h☾6 p. ☐☽☾
11	d	1 aft. Epiph.	1	59	21	38	☐☽☾Eclipsed visible.
12	e	Arcadius	2	0	6	45	☐h☽5 m.
13	f	Hilary B.C.	4	1	21	50	☐☾☽4 p. Vari-
14	g	Wedding in	5	2	6	59	able, as Snow, Sleet
15	a	Maurus	6	3	22	0	☐☽☾2 p. or rain
16	b	Marcellus	7	4	6	10	*☾☽☐h☽9 p.
17	c	Antonius	8	5	20	24	Cold Rain and
18	d	2 aft. Epiph.	9	6	4	III	2 Snow with Easterly
19	e	Ulfstanus	10	7	17	18	☐☽☽☐☽9 a.
20	f	Fab. & Seb.	11	8	0	12	wind.
21	g	Agnes	12	9	12	50	*☾☽☽ Warm
22	a	Vincent	13	10	25	13	☐☽☽6 p. bur
23	b	Term begins	14	11	7	24	☐h☽8 p. remiss,
24	c	Timothy	15	12	19	27	☐☽☽12 p. ☐☽☽
25	d	Conv. S. Paul	16	12	1	24	close and cloudy,
26	e	Polycarpus	17	13	13	16	☐☾☽☽☽ Eclips.
27	f	John Chrysof	18	14	15	7	Uncer- (☐☾☽8 p.
28	g	Julian	19	15	6	59	rain weather, with
29	a	Valerius	20	16	18	51	Northerly winds to the
30	b	K. CHAR. I. M.	21	16	0	50	☐☽☽6 p. end of
31	c	Saturn	22	17	2	55	☐h☽10 a the month

February hath xxviii. days.

- First quarter the 3. day, 51 min. past 9 at night.
- Full Moon the 10. day, a quarter past 3 afternoon.
- Last quarter the 17. day, before 12 at noon.
- New Moon the 25 day, 15 min. past 3 afternoon.

*Warm Cloaths this Month are good, old Sack no less,
Always provided thou avoid excess.*

M.D.	W.D.	The Feasts and Terms.	Suns Place.	Moons Place.	The Planets Aspects, & Inclination of the Air.			
1	D	Ignatius	23	18	25	3	☐ ☿ ☾	Snow-
2	c	Candelmas day	24	18	7	38	☐ ☿ ☾	like and
3	f	Blaze B. M.	25	19	20	22	☐ ☿ ☾	North
4	g	Gilbert	26	19	3	26	☐ ☿ ☾	wind.
5	a	Agatha V.M.	27	20	16	54	☐ ☿ ☾	Cold and some
6	b	Dorothy V.M.	28	21	0	54	☐ ☿ ☾	sudden
7	c	Romwald Ab.	29	21	15	7	☐ ☿ ☾	☐ ☿ ☾
8	D	5 after Epiph.	0	22	29	51	☐ ☿ ☾	Showers of Rain
9	e	Apollonia	1	22	14	15	☐ ☿ ☾	☐ ☿ ☾
10	f	Scholastica V.	2	22	0	7	☐ ☿ ☾	or Sleet.
11	g	Sother	3	23	15	23	☐ ☿ ☾	&
12	a	Term ends	4	23	0	27	☐ ☿ ☾	
13	b	Ermenild Q.	5	23	15	11	☐ ☿ ☾	☐ ☿ ☾
14	c	Valentine P.	6	24	29	29	☐ ☿ ☾	Snow or Rain
15	D	Septuagesima	7	24	13	19	☐ ☿ ☾	but
16	e	Polychron	8	24	26	41	☐ ☿ ☾	warm
17	f	Fauſtinus B.	9	24	9	37	☐ ☿ ☾	considering the season
18	g	Simson B. M.	10	24	22	8	☐ ☿ ☾	Dark
19	a	Acca B.	11	24	4	25	☐ ☿ ☾	cloudy weather.
20	b	Mildreda V.	12	25	16	28	☐ ☿ ☾	☐ ☿ ☾
21	c	Cimbert B.	13	25	28	23	☐ ☿ ☾	Frost and
22	D	Exaltation	14	25	10	14	☐ ☿ ☾	☐ ☿ ☾
23	e	Polycarp	15	25	22	3	☐ ☿ ☾	Snow
24	f	S. Marcellus	16	24	3	54	☐ ☿ ☾	☐ ☿ ☾
25	g	Nicephorus	17	24	15	49	☐ ☿ ☾	with South
26	a	Victorinus	18	24	27	50	☐ ☿ ☾	wind.
27	b	Augustin	19	24	9	58	☐ ☿ ☾	Frost.
28	c	Romanus	20	24	22	16	☐ ☿ ☾	

Febru- ary.	♈		♉		♊		♋		♌		♍		♎		♏		♐		♑		♒		♓		Lat.	
	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.
The Planets places.	1	11	7	57	17	11	29	5	17	33	5	33	28	17	59	5	M	8								
	6	12	28	17	45	9	10	11	48	5	40	3	D	19												
	11	12	53	17	57	12	48	18	2	12	53	3	M	6												
	16	13	32	18	4	16	27	24	16	20	34	4	A	58												
	21	14	6	18	R.	6	20	5	0	3	29	43	59													
	26	14	41	18	4	23	45	7	59	9	3	43	S	55												

The Incr. & Decr. of the days, with Southing, &c. of Stars and Planets					Full Sea Lon. Br.	
M.D.	H. M.	H. M.			M.D.	
1	7	17 4	43	2) Sun rises ESE, sets WSW.	10	7 48
2	7	16 4	44	Day 9 hours and half long.	11	8 36
3	7	14 4	46	Lions heart South at 12.	3	9 24
4	7	13 4	47	3) The 7 *s are with the Moon.	4	10 12
5	7	11 4	49		5	11 0
6	7	10 4	50		6	11 48
7	7	8 4	52	Days lengthned a h. 20 m.	7	12 36
8	7	6 4	54		8	1 24
9	7	4 4	56		9	2 12
10	7	2 4	58	Day breaks at 5 morning.	10	3 0
11	6	59 5	1	Day 10 hours long.	11	3 48
12	6	58 5	2	Twilight ends at 7 at night.	12	4 36
13	6	56 5	4		13	5 24
14	6	55 5	5		14	6 12
15	6	54 5	6	Day lengthned a h. 36 m.	15	7 0
16	6	53 5	7		16	7 48
17	6	51 5	8		17	8 36
18	6	49 5	11		18	9 24
19	6	46 5	14		19	10 12
20	6	44 5	16	Day 10 hours and half long.	20	11 0
21	6	42 5	18	20) Sun rises E b.S. sets W b.S.	21	11 48
22	6	40 5	20		22	12 36
23	6	38 5	22		23	1 24
24	6	35 5	25	Day breaks 4 h. 30 m.	24	2 12
25	6	32 5	28	Twilight ends 7 h. 30 m.	25	3 0
26	6	30 5	30	Day 11 hours long.	26	3 48
27	6	27 5	33		27	4 36
28	6	24 5	36		28	5 24

March hath xxxi. days.

- First quarter the 5. day, 44 min. after 10 before noon.
 Full Moon the 12. day, 15 min. before 1 in the morn.
 Last quarter the 19. day, 12 min. past 4 in the morn.
 New Moon the 27. day, 52 min. past 6 in the morning.

Thy Blood afresh 'gins to increase again,
 Bath, Bleed and Purge, thy Body to maintain.

1	Quinquagesima	21	24	4	841	Shrove-Sunday
2	e Simplicius	22	23	17	19	♂ ♀ ☾ Good
3	f Lucius P.M.	23	23	0	II 10	Shrove-Tuesday
4	g Ember week	24	23	13	16	1st-Wednesday
5	a Eusebius P.M.	25	22	26	36	Spring weather at the
6	b Frideline	26	22	10	519	☐ h ☾ beginning of
7	c Perpetua V.	27	21	24	22	☐ ♀ ☽ ♂ ♂ the
8	d Quinquagesima	28	21	8	48	☐ ♀ ☽ month. Then
9	e 40 Martyrs	29	20	23	31	Rain and small mis-
10	f Alexander	0	20	8	29	ling shows.
11	g Oswin K.M.	1	19	23	34	♂ ♀ ☾
12	a Gregory P.	2	19	8	36	♂ ♀ ☾
13	b Vigan Mon.	3	18	23	24	♂ h ☾ Rain and
14	c Leo B.	4	17	7	49	☐ ♂ ☾ missing
15	d Remigius	5	16	21	47	♂ ♂ ☾ till the
16	e Cyriacus	6	16	6	15	20. or 21. days.
17	f Gertrude	7	15	18	15	
18	g Edward K.M.	8	14	0	50	♂ ♀ ☾ ☐ ♀ ☾
19	a Josephus	9	13	13	7	☐ ♂ ☾
20	b Cuthbert	10	12	25	6	Great Winds with
21	c Benedictus	11	11	6	59	♂ ♂ ☾ Rain,
22	d Oculi	12	10	18	44	☐ ♀ ☽
23	e Theodore	13	9	0	34	More temperate
24	f Agapitus	14	8	12	27	
25	g Ambrose	15	7	24	27	
26	a Castulus	16	6	6	16	♂ ♀ ☾ Dry, but
27	b Archibald	17	5	18	57	♂ h ☾ Cold
28	c Eremond K.	18	3	1	30	♂ ♀ ☾ ☐ ♀ ☽
29	d Marcellus	19	2	14	14	♂ ♀ ☽ ☐ ♂ ☾
30	e Patronus	20	1	27	8	and dark Clouds
31	f Guido	21	0	10	II 16	♂ ♀ ☽ Rain.

March	♈		♉		♊		♋		♌		♍		♎		♏		Lat	
	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.	D.	M.
The Planets Places.	1	15	♈	3	18	♉	0	45	♊	57	10	♋	28	12	♌	39	4	M 41
	6	15	39	17	51	29	37	16	41	22	0	2	D	27				
	11	16	16	17	36	3	18	22	54	1	♈	50	3	M	39			
	16	16	54	17	18	6	59	19	7	12	0	4	A	32				
	21	17	32	16	55	10	40	5	♈	19	22	9	0	3				
	26	18	10	16	29	14	22	11	31	3	♉	22	4	S	24			

1	6	23	5	37	Day lengthened 1 ho. 40 m.	1	6	12
2	6	20	5	41	The Lions Tail is South at 12.	2	7	0
3	6	18	5	42		3	7	48
4	6	16	5	44	Day 11 hours and half long.	4	8	36
5	6	14	5	46	Day breaks 4 ho. 12 m.	5	9	24
6	6	11	5	49	Twilight ends 7 h. 48 m.	6	10	12
7	6	9	5	51		7	11	0
8	6	7	5	52		8	11	48
9	6	5	5	55		9	12	36
10	6	3	5	57	The Sun rises due East,	10	1	24
11	6	0	6	0	Equal day and night.	11	2	12
12	5	59	6	1	And sets due West.	12	3	0
13	5	57	6	3		13	3	48
14	5	56	6	4		14	4	36
15	5	54	6	6	Day breaks 3 ho. 50 min.	15	5	24
16	5	52	6	8	Twilight ends 8 h. 10 m.	16	6	12
17	5	50	6	10		17	7	0
18	5	48	6	12		18	7	48
19	5	46	6	14	Day 12 hours and half long.	19	8	36
20	5	44	6	16	First in great Bears tail South	20	9	24
21	5	42	6	18	at midnight.	21	10	12
22	5	40	6	20	Sun is East at 16 min. after 6,	22	11	0
23	5	39	6	21	and due West 44 m. after 5.	23	11	48
24	5	37	6	22	Days lengthened 5 h. 20 min.	24	12	36
25	5	36	6	24	Day breaks 3 h. 25 m.	25	1	24
26	5	34	6	26	Twilight ends 8 h. 35 m.	26	2	12
27	5	32	6	28		27	3	0
28	5	30	6	30	Day 13 hours long.	28	3	52
29	5	28	6	32	The second in the great Bears	29	4	43
30	5	26	6	34	tail is South at 12.	30	5	35
31	5	24	6	36	10) The 7 stars with the Moon.	31	6	26

High Water at London Bridge.

April hath xxx. days.

- ☾ First quarter the 3. day, 19 m. past 7 at night.
- ☾ Full Moon the 10. day, 16 m. past 10 before noon.
- ☾ Last quarter the 17 day, 25 min past 9 at night.
- New Moon the 25. day, at 9 at night.

If thou intend'st to Purge or Bath or Bleed,
Of Learn'd Physicians Counsel thou hast need.

1	g	Conv. Ma. Mag	21	58	23	II	31	♂ ♀ ☿	Cold
2	a	Mary Egypt.	22	57	6	☿	59	Rain.	
3	b	Richardus	23	55	20	39	☐ b ☾	☐ ☿ ☾	
4	c	Ambrosius	24	54	4	☿	32	☐ ☿ ☾	
5	d	Judica	25	52	18	40	♂ ♀ ☿	☐ ♀ ☾	
6	e	Ethelwold K.	26	51	3	☿	3	Fair and	
7	f	Egesippus	27	49	17	35		calonable.	
8	g	Dustanus C.	28	48	2	☿	19		
9	a	Frichstan B.	29	46	17	1	♂ b ☾		
10	b	Eschillus B.M.	30	44	1	☿	36	♂ ☿ ☾	
11	c	Leo P. Conf.	1	43	15	54	♂ ♀ ☾		
12	d	Palm-Sunday	2	41	29	48	☿ ☿ ☿	☐ ☿ ☾	
13	e	Justinus M.	3	39	13	☿	15	Hoary Frost	
14	f	Valerian M.	4	37	26	21		and cloudy, but	
15	g	Olympia	5	36	8	☿	58	dry	
16	a	Translat. Alb.	6	34	21	15	☐ b ☾	Flying	
17	b	Anicetus P.M.	7	32	3	☿	17	part-	
18	c	Oswin Mon.	8	30	15	7	☐ ♀ ☾	coloured	
19	d	Easter day	9	28	26	54	♂ ☿ ☾	Clouds.	
20	e	Ceadwal K.	10	26	8	☿	44		
21	f	Anselm B.	11	24	20	37	♂ ♀ ☿		
22	g	Peter & Lajus	12	22	2	☿	41	Fair and pleasant	
23	a	S. George	13	20	14	57	☿ ☿ ☿	Windy	
24	b	Melinus B.	14	18	27	30	♂ ☿ ☿	♂ b ☾	
25	c	S. Mark Evan.	15	16	10	☿	18	Hail	
26	d	Low Sunday	16	13	23	22	♂ ☿ ☿	♂ ☿ ☾	
27	e	Wedding. n.	17	11	6	II	38	☐ ☿ ☾	small
28	f	Vitalis M.	18	9	20	7		Showers and	
29	g	Peter Martyr	19	7	3	☿	44	good springing	
30	a	Katharine of S.	20	4	17	28		weather.	

April	D	b	v	♂	♀	♂	♀	Lac.
	I	D. M.	D. M.	D. M.	D. M.	D. M.	D. M.	D. M.
The Planets Places.	6	18 V 55	15 M 53	18 M 48	18 V 56 11	8	13 M 26	
	7	19 33	15 R. 19	22 30	25 7 16	35	2 17	
	11	10 11	14 44	26 11	1 8 18 19	47 4	A 55	
	16	20 49	14 7	29 52	7 28 20 R.	28 1	11	
	21	21 26	13 29	3 X 31	13 38 18	53 3 S	39	
	26	22 2	12 51	7 15	19 48 16	94 D	44	
1	5	20 6	40	Day breaks 2 h. 57 m.		1	7 18	
2	5	18 6	42	Twilight ends 9 h. 3 m.		2	8 16	
3	5	16 6	44	Day 13 hours and a half long.		3	9 2	
4	5	14 6	46			4	9 53	
5	5	12 6	48	The 3d. in G. Bears Tail S. at 12		5	10 45	
6	5	10 6	50	& at greatest distance from ☉		6	11 37	
7	5	7 6	53			7	12 28	
8	5	4 6	56	Pegasus Shoulder S. at 12.		8	1 20	
9	5	2 6	58			9	2 11	
10	5	0 7	0	Day 14 hours long.		10	3 0	
11	4	58 7	2			11	3 48	
12	4	57 7	3	Day lengthened 6 ho. 52 m.		12	4 36	
13	4	55 7	5			13	5 24	
14	4	53 7	7	Day breaks 2 h. 25 m.		14	6 12	
15	4	52 7	8	Twilight ends 9 h. 35 m.		15	7 0	
16	4	50 7	10	Sun rises ENE. sets WNW.		16	7 48	
17	4	48 7	12			17	8 36	
18	4	46 7	14			18	9 24	
19	4	44 7	16	Day 14 hours and half long.		19	10 12	
20	4	42 7	18	Sun is due East at 50 m. past 6		20	11 0	
21	4	40 7	20	and West 10 min. after 5.		21	11 48	
22	4	39 7	21	The 7 stars rise Cosmically.		22	12 36	
23	4	37 7	23			23	1 24	
24	4	35 7	25	Day breaks 1 h. 51 m.		24	2 12	
25	4	33 7	27	Twilight ends 10 h. 9 m.		25	3 0	
26	4	31 7	29	The 7 Stars are with the Moon.		26	3 52	
27	4	29 7	31	Day 15 hours long.		27	4 43	
28	4	27 7	33	The North Balance S. at 12.		28	5 34	
29	4	25 7	35			29	6 26	
30	4	23 7	37	Day lengthened 7 h. 40 m.		30	7 18	

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Day	D	h		π		♂		♀		☿		lat	
		d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	D.	M.
	1	22	38	2	14	10	55	25	57	13	15	0	M 11
	6	23	12	1	36	14	34	0	11	6	11	19	4
	11	23	46	1	1	18	13	8	14	11	20	3	A 21
	16	24	18	10	28	21	50	14	23	13	0	1	42
	21	24	50	9	58	25	R 2	20	31	16	22	5	D 4
	26	25	19	9	31	29	1	16	38	21	16	2	44

1	4	23	7	3	Day breaks 1 h. 8 m.							19	10
2	4	21	7	39	Twilight ends 10 h. 52 m.							19	2
3	4	20	7	40	The North Crown is South at 12							9	53
4	4	18	7	42	The Hinder Guard South at 12							4	45
5	4	17	7	43	Serpents neck S. at 12							5	37
6	4	16	7	44	Day 25 hours and 24 min. long.							6	28
7	4	14	7	46	Days lengthened 6 hours							7	20
8	4	12	7	48	The Sun is East at 9 min. after 7							8	11
9	4	11	7	49	and West 51 min. after 4							9	0
10	4	10	7	50	Sun rises N. E. by E. & sets N. W. by W							3	45
11	4	9	7	51	The seven Stars sets achronically							11	30
12	4	8	7	52	The Bulls eye sets achronically.							12	15
13	4	6	7	54	Continual day and no dark night							13	0
14	4	5	7	55	from May 12 to July 12							14	45
15	4	4	7	56	The Scorpions heart is South at 12							15	30
16	4	2	7	58	Day 16 hours long.							16	15
17	4	1	7	59								9	0
18	3	0	8	1								18	45
19	3	59	8	1								19	30
20	3	58	8	2	The Bulls eye rises Cosmic ally.							20	15
21	3	57	8	3	Days lengthened 6 h. 51 m.							21	0
22	3	56	8	4	The seven Stars with the Moon.							22	45
23	3	55	8	5								23	30
24	3	54	8	6								24	15
25	3	54	8	6								25	0
26	3	53	8	7	Hercules head is South at 12							26	52
27	3	52	8	8								27	43
28	3	52	8	8								28	35
29	3	51	8	9	King Charles the 3 rd buried							29	26
30	3	51	8	9	and Reformed, 1660.							30	18
31	3	50	8	10	Day 16 hours 30 m. long.							31	10

High water at London bridge

First Quarter the 1 day, 39 min. past 4 in the morning.
 Full Moon the 8 day, 42 min. past 7 in the morning.
 Last Quarter the 16 day, 44 min. past 7 in the morn.
 New Moon the 23 day, 24 min. past 6 at night.
 First Quarter the 30 day, 7 min. after 9 before noon

Drinks new or sweet, hot Spice, I warn thee flee
 The sports of Venus and phlebotomy.

1	e	20	II	41	24	ny	18	Very hot
2	f	Marcellinus	21	38	8	z	20	♂ ♂ ☐ ♀ ☐
3	g	Erasmus B.M.	22	35	22		14	♂ h ☐ flying
4	a	Petrochius B.	23	32	6	m	5	♂ ☐ ☐ clouds
5	b	Boniface B.	24	29	19		47	☐ ☐ ☐ produce-
6	c	Claudius	25	27	3	z	17	♂ ☐ ☐
7	d	Wendy	26	24	16		33	☐ ☐ ☐ ing storms
8	e	Medardus	27	21	29		44	☐ ☐ ☐ of hail or thunder
9	f	Tr. Edmond	28	18	12	v	29	☐ ♂ ☐ ☐ ☐
10	g	Wendy	29	15	24		49	☐ h ☐ ☐ variable
11	a	Blandinus	0	12	7	z	2	☐ ☐ ☐ and
12	b	Anthony	1	9	19	x	4	☐ ☐ ☐ unsettled weather,
13	c	Trinity	2	6	0		59	☐ ☐ ☐ with wind and
14	d	Trinity	3	3	12		48	☐ ☐ ☐ cloudy dark air
15	e	Ru'andus	4	0	24	v	39	☐ ☐ ☐ mists or
16	f	Botolph	5	57	6		31	☐ ☐ ☐ ☐ ☐
17	g	Corpus Christi	6	54	8		36	♂ ♂ ☐ ☐ ☐
18	a	Tr. Edward	7	51	0	z	54	♂ h ☐ ☐ ☐
19	b	Tr. Edward	8	48	13		32	☐ ☐ ☐ ☐ ☐
20	c	Tr. Edward	9	46	26		32	☐ ☐ ☐ ☐ ☐
21	d	Tr. Edward	10	43	9	II	57	☐ ☐ ☐ ☐ ☐
22	e	Alban	11	40	23		45	☐ ☐ ☐ ☐ ☐
23	f	John and Paul	12	37	7	z	55	☐ ☐ ☐ ☐ ☐
24	g	Amandus	13	34	22		24	☐ h ☐ ☐ ☐ ☐
25	a	Leo P.	14	31	7	z	1	☐ ☐ ☐ ☐ ☐
26	b	Crescent	15	28	21		40	☐ ☐ ☐ ☐ ☐
27	c	3 att. Trin.	16	25	6	ny	18	Fair plea-
28	d	Commem. Pa.	17	22	20		47	☐ ☐ ☐ ☐ ☐
29	e		18	19	5	z	4	☐ ☐ ☐ ☐ ☐
30	f		19	16	9		5	☐ ☐ ☐ ☐ ☐

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1	3	50	8	10	Day long 32 min.	1	9	2
2	3	4	8	11		2	9	53
3	3	4	8	11		3	10	45
4	3	4	8	11		4	11	37
5	3	4	8	12		5	12	28
6	3	4	8	12		6	1	20
7	3	4	8	12		7	2	11
8	3	4	8	13	Dragons head S. at 12	8	3	0
9	3	4	8	13		9	3	48
10	3	4	8	13	Day long 32 min.	10	4	36
11	3	4	8	13		11	5	24
12	3	4	8	13	On which day, the ☉ will be due	12	6	12
13	3	4	8	13	East at 10 min. after 8. in 'h	13	7	0
14	3	4	8	13	morn. and due West at 40 min.	14	7	48
15	3	4	8	12	past 3. in the afternoon, and will	15	8	36
16	3	4	8	11	rise NE half a Point Easterly,	16	9	24
17	3	4	8	12	and sets N. West half a point	17	10	12
18	3	4	8	11	Westerly.	18	11	0
19	3	4	8	11		19	11	48
20	3	4	8	11	The lower head of II rises Cosmic	20	12	36
21	3	50	8	10	Day long 32 min.	21	1	24
22	3	50	8	10	20) The 7 * is with the Moon	22	2	12
23	3	51	8	9		23	3	0
24	3	51	8	9	The foot of Gemini rises Cosmically	24	3	52
25	3	52	8	8		25	4	43
26	3	52	8	8		26	5	35
27	3	53	8	7	Day long 32 min.	27	6	26
28	3	54	8	6		28	7	18
29	3	55	8	5		29	8	10
30	3	56	8	4	Swans bill South at 12	30	0	2

July birth XXXI days.

Full Moon the 7 day, 40 min, past 8 at night

☾ Last Quarter the 11 day 32 min. past 11 at night.

New Moon the 23 day, 22 min. past 2 in the morning.

First Quarter the 29 day 24 min. past 4 afternoon.

Strong drink and new, refuse ; it is thy Foe,

To bathe in Rivers cool, this July go.

1	a	Romwald B.	19	5	13	2	m	52		windy
2	a	Visit. Mary	20		10	16		26	♂ ♀ ☐ ♀ ☐	
3	b	Hyacinth. M	21			29		44	☐ mife, close,	
4	c	Ulricus	22		5	12	f	50	id cloudy	
5	c	3 after Trin.	23		2	25		48		
6	e	Saxburga	23	59	8		v	24	☐ ☐ ☐ ☐ Wind	
7	f	Tr. Th. Con-	24	56	20			52	☐ ☐ ☐ ☐ and	
8	g		25	53	3		☐	9	☐ h ☐ ☐ ☐ ☐	
9	a	Cerillus	26	5	15			17	Thunder	
10	b	7 Brethren M	27	48	29			15	☐ ☐ ☐ ☐ ♂ ☐ ☐	
11	c	Pius P. M.	28	45	9		X	10	with hail and	
12	c	4 after Trin.	29	42	21			2	sudden showers	
13	e	Anaclet. P. M	0	5	39	2	v	42		
14	f	Bonaventure	1		37	14		58	☐ ☐ ☐ ☐ Dry	
15	g	Davif. Apost.	2		34	26		51	♂ h ☐ winds	
16	a	Osmond B. S.	3		31	9	☐	8	♂ ☐ ☐ ☐ ☐ ☐ ☐	
17	b	Kenelm K. M	4		28	21		42	☐ ☐ ☐ Fair	
18	c	Rosina	5		26	4	II	58	☐ ☐ ☐ and	
19	c	5 after Trin.	6		23	17		59	cloudy	
20	e	Margaret V M	7		20	1	5	49		
21	f		8		18	16		5	Thunder	
22	g	Mary Magl.	9		15	0	5	42	☐ ☐ ☐ ☐	
23	a	Apollinari B	10		12	15		39	☐ ☐ ☐ ☐ ☐ ☐	
24	b	Christina	11		10	0	☐	44	♂ ☐ ☐ Wind	
25	c		12		7	15		46	♂ ☐ ☐ and	
26	c	6 aft. Trinit.	13		5	0	☐	46	Rain	
27	e	Martha V	14		2	15		12	☐ ☐ ☐ ☐ Hot	
28	f	Celsus P. M	15		0	29		24	♂ h ☐ ☐ ☐ ☐	
29	g	Beatrice	15	57	13		m	14	and great	
30	a	Abden M	16	55	26			40	drought, ap-	
31	b	Ignarius	17	52	9		f	48	proaching	

July	D		E		F		G		H		I		J		K		L		M	
	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.	d.	m.
	1	28	V	28	m	18	23	V	41	10	1	38	27	5	2	5	M	16		
	6	28		16	8	25	26		54	16	43	7	1	39			I	59		
24	11	28		28	8	38	0	2	22	48	16	41	3	5	21		S	21		
25	16	28		37	8	54	3		5	28	53	24	59	5	D	14				
26	21	28		43	9	15	6		3	4	57	2	m	32		I	19			
27	26	28		47	9	40	8		55	11	1	9	20	4	37					

August hath XXXI days

- Full Moon the 6 day, 12 min. past 11 before noon.
- Last Quarter the 14 day, at 2 in the afternoon
- New Moon the 21 day, 58 min. past 9 in the morning.
- First Quarter the 28 day, 47 min. past 2 in the morn.

Take heed of sursets, inflaming meats and spices;
Physick forbear, be wise in exercises.

1	c	Lammas day.	18	50	22	2	38	Hot and dry
2	d	7 Sun. af. Tri.	19	47	5	13	for many days	
3	e	Invent. Steph	20	45	17	37		
4	f	Dominick. C	21	43	29	49	□ h c fair	
5	g	B. Vir. ad Niv.	22	40	11	55	□ 14 c □ 8 c	
6	a	Sixtus	23	38	23	55		
7	b	Donatius B. M	24	36	5	50	Very hot with	
8	c	Targus	25	34	17	43	8 8 c thunder	
9	d	8 Sun. af. Tri.	26	31	29	35	8 8 c	
10	e	Laurence M	27	29	11	29	Storms of hail	
11	f	Gilbert B C	28	27	23	29	△ 5 c	
12	g	Clare Virg.	29	25	5	35	8 h c 8 14 c	
13	a	Hypolitus M.	0	23	17	52	8 8 c	
14	b	Eusebius C.	1	21	0	4	mo e tempe-	
15	c	Assump Mary	2	19	13	14	rate, and	
16	d	9 Sun. af. Tri.	3	17	26	30	□ 8 c variable	
17	e	Thom. of Hart.	4	15	10	9	□ 8 c	
18	f	Helena Emp.	5	13	24	18	□ h c	
19	g	Sebaldus	6	11	8	58	□ 14 c	
20	a	Bernard Ab.	7	9	13	53	□ 8 c	
21	b	Richard	8	7	9	7		
22	c	Timothy	9	5	24	24	8 8 c	
23	d	10 Sun. af. Tri.	10	3	9	35	8 8 c	
24	e	11 Sun. af. Tri.	11	1	34	28	△ 8 c 8 h c	
25	f	Lew's K C.	12	c	8	55	8 8 c	
26	g	Zopherni	12	58	22	56	8 8 c	
27	a	Gebhardus	13	56	6	27	Thunder and	
28	b	12 Sun. af. Tri.	14	53	19	32	□ 8 c hail	
29	c	Decol John B	14	53	2	15		
30	d	11 Sun. af. Tri.	16	5	14	40	8 8 c Hot and	
31	e	Adrian B. Car.	17	50	26	51	□ 8 c dry.	

ning.
rn.

	D	F	h	u	♂	♀	♀	C	lat.
	d.	m.	d.	m.	d.	m.	d.	m.	D. M.
1	28	48	10	m	12	5	4	18	m 10
6	28	R 46	10	38	14	50	24	18	21 42 S 5
11	28	41	11	24	17	19	0	20	24 27 5 12
16	28	35	12	3	19	38	6	25	26 R 33 2 D 5
21	28	25	12	46	21	47	12	2	25 8 3 M 18
26	28	13	13	31	23	41	18	20	21 54 5 A 9

1	4	39	7	21	The Mouth of Pegasus South at 12					1	10	45
2	4	40	7	20						2	11	37
3	4	43	7	17	Day 14 hours and 11 min long					3	12	28
4	4	46	7	14						4	1	20
5	4	46	7	14	Day breaks 2 h. 15 m.					5	2	11
6	4	48	7	12						6	3	0
7	4	50	7	10	☉ rises E N E. sets W N W.					7	3	48
8	4	52	7	8						8	4	36
9	4	54	7	6	Day 14 hours and 11 min long					9	5	24
10	4	56	7	4						10	6	12
11	4	58	7	2	Day 14 hours and 11 min long					11	7	0
12	4	59	7	1						12	7	48
13	5	1	6	59	7 Stars with the ☉					13	8	36
14	5	3	6	57						14	9	24
15	5	5	6	55	Day breaks 2 h. 46 m.					15	10	12
16	5	6	6	54						16	11	0
17	5	8	6	52	Twilight ends 9 h. 13 m.					17	11	48
18	5	10	6	50						18	12	36
19	5	12	6	48	The ☉ will be East 32 m. after					19	1	24
20	5	14	6	46						20	2	12
21	5	16	6	44	Day 14 hours and 11 min long					21	3	0
22	5	18	6	42						22	3	48
23	5	20	6	40	Pegasus Shoulder South at 12.					23	4	36
24	5	22	6	38						24	5	24
25	5	24	6	36	Day 14 hours and 11 min long					25	6	12
26	5	26	6	34						26	7	0
27	5	28	6	32	☉ rises E by N. sets West by N.					27	7	48
28	5	30	6	30						28	8	36
29	5	31	6	29	Day 14 hours and 11 min long					29	9	24
30	5	33	6	27						30	10	12
31	4	35	6	25	The ☉ East at 16 m. after 6: and West at 44 m. after 5					31	11	0

High water at London Bridge

September hath XXX. days.

- Full Moon the 5 day, 49 min. past 3 in the morning.
 ● Last Quarter the 13 day, 25 min. after 2 in the morn.
 ● New Moon the 19 day, 5 min. past 12 at noon.
 ● First Quarter the 26 day, at 5 in the afternoon.

Now Physick may be us'd, ble. d, bath and purge,
 Or what so e're necessity doth urge.

1	f	Egidius Ab.	18	48	8	54	□	♂	fair
2	g	London burn	19	47	20	51	□	♂	
3	a	anno 1665	20	45	2	45	♂	h	Gold
4	b	Cutbert B.	21	44	14	37	♂	♀	Rain
5	c	Victorin B M	22	43	26	31			and misting
6	e	12 Sun af. Tri	23	41	8	27	☾		showers
7	e	Trans. Dunst.	24	40	20	28			
8	f	Nat. Mary	25	39	2	34	♂	h	♂ ♀
9	g	Gorgonius M	26	38	14	47	♂	♂	Cloway
10	a	Nicholas C	27	36	27	9	♂	♂	windy
11	b	Hyacinthus M	28	35	9	44	♂	♂	□ ♀
12	c	Eanfwyd Ab.	29	34	22	32	♂		Day westerly
13	e	13 Sun. af. Tri.	30	33	5	39			wind
14	f	Exaltar C.	1	31	19	12	□	h	good
15	g	Nicomedes	2	30	3	8			weather and
16	a	Euphemia	3	9	17	31	□	♂	□ ♀
17	b	Ember week	4	8	2	17	□	♂	Fair
18	c	Tr. Winock	5	7	17	25	♂	♀	
19	e	Januarius B	6	6	2	41			
20	f	14 Sun. af. Tri.	7	5	17	57	♂	♂	still
21	g	Mauritius	8	5	2	38	♂	h	Fair
22	a	Teclo V. M.	9	4	17	27	♂	♂	♂ ♀
23	b	Samuel Pr.	10	3	2	46	♂	♂	and
24	c	Centride Ab.	11	3	15	25	□	♀	pleasant
25	e	Cyprianus	12	2	28	44			
26	f	15 Sun af. Tri	13	2	11	17			
27	g	Wenceslaus	14	1	23	49	□	h	
28	a	16 Sun. af. Tri	15	0	5	48			Rain concludes
29	b	Jerome P & D	16	0	17	46	□	♂	the
30	c		17	0	29	38	♂	♂	month.

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October hath xxvi. dayes

- ☾ Full Moon the 4 day, 18 min. past 8 at night.
- ☾ Last Quarter the 12 day, 9 min. past 1 in the afternoon.
- ☾ New Moon the 19 day, 40 min. past 3 in the morning.
- ☾ First Quarter the 26 day, 41 min. past 10 in the forenoon.

Now Physick help do not refuse,
If thou it want; an't warily canst use.

1	a	Remigius B C	18	20	11	X	1	
2	b	Tho. Becker	19	19	23		21	Heavy frosts
3	c	Gerrard Ab.	20	19	5	V	17	and dry winds
4	d	16 Sun. af. Tri.	21	19	17		21	☉ ☿ ☿
5	e	Placidus M.	22	18	29		30	☉ ☿ ☿ Fair and
6	f	Bruno C.	23	18	11	☿	48	good weather
7	g	Marcellus	24	18	24		13	☉ ☿ ☿ ☉ ☿ ☿
8	a	Demetrius M.	25	18	6	II	26	☉ ☿ ☿ ☉ ☿ ☿
9	b	Relictus M.	26	17	19		3	cold, rain, and
10	c	Gideon	27	17	2	S	30	☉ ☿ ☿ Easterly
11	d	17 Sun. af. Trin	28	17	15		41	windes
12	e	Wilfrid. B. Y	29	17	19		7	☐ ☿ ☿ ☐ ☿ ☿
13	f	Trans. Edw. R.	m	17	12	☿	53	moist and
14	g	Calixtus P. M	1	17	27		1	☉ ☿ ☿ ☐ ☿ ☿
15	a	Teresa V.	2	17	11	☿	29	☐ ☿ ☿ winy
16	b	Lull. s B.	3	17	26		14	till the 24 or 25
17	c	Andrey V.	4	18	11	☐	12	days
18	d	18 Sun. af. Trin	5	18	6		13	☉ ☿ ☿
19	e	Fridiswide V.	6	18	11	m	8	☉ ☿ ☿
20	f	Wendelin. Ab	7	18	25		34	☉ ☿ ☿ ☉ ☿ ☿
21	g	Ursula Virg.	8	18	9	☿	55	
22	a	Cordula V. M.	9	19	23		40	☉ ☿ ☿
23	b	19 Sun. af. Trin	0	19	6	☿	54	☉ ☿ ☿
24	c	Salome	11	19	19		42	☐ ☿ ☿ hot and
25	d	19 Sun. af. Tri	12	20	2	☿	8	winy.
26	e	Amandus	13	20	14		16	
27	f	Ivo Conf.	14	21	26		13	☉ ☿ ☿ ☐ ☿ ☿
28	g	20 Sun. af. Trin	15	21	8	X	4	great windes
29	a	Eadfin B	16	22	19		53	☉ ☿ ☿ ☐ ☿ ☿
30	b	Agelnorth B.	17	22	1	V	47	and hot the seison
31	c	Wolffinghen	8	23	11		47	☉ ☿ ☿ considered.

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November hath XXX days

- Full Moon the 3 day, 18 min. past 1 in the afternoon.
- Last Quarter the 10 day, 3 quarters past 9 at night
- New Moon the 17 day, 7 min. past 3 in the afternoon.
- First Quarter the 25 day, 3 min. past 7 in the morning.

Choose hot and wholesome drinks, and meats likewise;
 Avoid hot Baths, use honest exercise.

1	e	All Saints	19	m	23	25	v	55	Impestuous
2	e	All Souls	20		24	8	♂	14	Winds
3	f	Winifrid V M	21		25	20		44	♂♂ and
4	g	Agricola M	22		25	3	II	25	♂♂ and
5	a	Andrew P. M.	23		26	16		19	stormy weather
6	b	Severus B M	24		27	29		24	all the former
7	c	Wildebred B	25		27	12	♂	39	♂♂ and part of
8	e	21 Sun. af. Tri.	26		38	26		3	□ h and this m. inesh
9	e	Theodorus	27		29	9	♂	39	
10	f	Triphon M	28		30	23		28	□♂ and
11	g	Martin B C	29		31	7	♂	26	□♂ remiss
12	a	Martin P M	0	♂	32	21		20	□♂
13	b	Kilianus B M	1		33	6	♂	2	close and nor-
14	c	Fredericus	2		33	20		38	♂ h and, □♂
15	e	22 Sun. af. Tri.	3		34	5	m	8	berly windes
16	f	Edmund B C	4		35	19		36	♂♂
17	g	Thaumatyr B	5		36	3	♂	34	♂♂
18	a	Gelasius	6		37	17		55	warmer air
19	b	K. Char. I. nat.	7		38	1	♂	31	♂♂ but
20	c	Edmond R M	8		39	15		26	great winds
21	e	Oblat. Mary	9		41	27	36	□ h and	♂♂
22	f	23 Sun. af. Tri.	10		42	10	♂	5	□♂
23	g	Clement P M	11		43	22		18	
24	a	Chryfogenus	12		44	4	♂	17	□♂
25	b	Katherine V M	13		45	16		8	
26	c	Pet. B. Alex.	14		46	27		55	Frost, snow
27	e	Oda Virg.	15		47	9	v	53	□♂
28	f		16		48	21		50	♂ h and
29	g		17		50	4	♂	1	□♂ and
30	a		18		51	16		27	♂♂ windes

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December hath XXXI days.

- Full Moon the 3 day, 18 min. after 1 in the afternoon
- Last Quarter the 10 day, 14 min. past 5 in the morning
- New Moon the 17 day, 14 min. past 5 in the morning
- First Quart. the 25 day, 54 min. past 3 in the morning

To keep thy self in action thou may:st play
At Cards or Dice, but not thy State away.

1	f	Daniel B.	19	2	52	2	8	♂	♂	♂	Fair
2	g	Candida	30	53	11	II	59	cold	Snow,	and	
3	a	Lucius R. B.	21	54	25	16			Easterly,		
4	b	Barbara V. M.	22	56	8	♂	46	♂	♂	wind.s	
5	c	Sabbas Abbot	13	57	22	27	□	h	♂	f. off,	
6	e	2 Sun. in Adv.	24	58	6	♂	18	♂	♂	snow and	
7	e	Ambro. B. C.	26	0	20	17	□	♂	♂	changeable	
8	f	Concept. M.	27	14	20	□	♂	♂	weather		
9	g	Joachinas	28	2	18	25					
10	a	Damascus P.	29	3	2	35			cold snow		
11	b	Malchiades P.	0	5	16	44	♂	h	♂	♂	
12	c	Epimachus	1	6	0	52	and	missing	rain.		
13	e	3 Sun. in Adv.	2	7	14	59	♂	♂	♂	♂	
14	e	Mimborin. Ab.	3	9	28	56					
15	f	Hilila Abbes,	4	10	2	43			♂	♂	
16	g	Anianias	5	11	26	19	♂	♂	more		
17	a	Ember week	6	13	9	36			missing		
18	b	Christopher.	7	14	22	41	□	h	♂	showers	
19	c	Nemthias M.	8	15	5	27					
20	e	4 Sun. in Adv.	9	17	27	55	□	♂	♂	♂	
21	e	S. Thomas	10	18	0	8	cold,	sudden			
22	f	Hilidelid V.	11	19	12	10			♂	♂	
23	g	Victor Virg.	12	20	24	1	□	♂	♂	showers.	
24	a	Adam & Eve	13	22	5	55	snow	or rain,			
25	b	Christmas	14	23	17	46	♂	h	♂		
26	c	S. Stephen.	15	24	29	44	Frost				
27	e	S. John Baptist	16	26	11	53			♂	♂	
28	e	S. Andrew	17	27	4	17	□	♂	♂	windy	
29	f	Thos. B. Cult.	18	28	7	II	♂	♂	and		
30	g	Eustarchius	19	29	0	5	cold	rain			
31	a	Silvester P. C.	20	3	3	32	♂	♂			

	D	h	u	♂	♀	♀	♂	lat.
	d.	m.	d.	m.	d.	m.	d.	M.
1	22	V	33	29	14	3	27	10
6	21	57	4	34	13	48	10	47
11	21	54	5	9	13	57	14	47
16	21	D	53	33	14	23	18	21
21	21	56	7	45	15	6	21	26
26	2	18	1	47	16	5	23	52
								25
								D
								40
								5
								D
								13

1	8	10	3	50	First * in 0 ris Girale S. at 12	1	2	12
2	8	11	3	49	Day breaks at 6 in morn.	3	3	0
3	8	12	3	48	Twilight ends at 6 at night	4	4	48
4	8	12	3	48	Wagons Shoulder S. 12	5	5	36
5	8	13	3	47	Orions right Shoulder S. 12	6	6	24
6	8	13	3	47		7	7	12
7	8	13	3	47		8	7	c
8	8	13	3	47		9	8	48
9	8	13	3	47		10	9	36
10	8	13	3	47		11	10	24
11	8	13	3	47		12	11	12
12	8	13	3	47	The ☉ rises S.E. half a Point Easterly, and sets S. w. half a Point westerly.	13	11	c
13	8	13	3	47		14	12	48
14	8	13	3	47		15	12	36
15	8	13	3	47		16	1	24
16	8	13	3	47		17	2	12
17	8	13	3	47		18	3	0
18	8	12	3	48		19	3	48
19	8	11	3	49		20	4	36
20	8	10	3	50	The lowermost head of the Twins riseth Achronically	21	5	24
21	8	9	3	51		22	6	12
22	8	8	3	52		23	7	0
23	8	7	3	53	The foot of the Twins riseth Achr.	24	7	48
24	8	6	3	54	Day breaks 5 h. 58 m.	25	8	36
25	8	5	3	55	Twilight ends 6 h. 2 m.	26	9	24
26	8	4	3	56	Caster South at 12 a clock	27	10	12
27	8	4	3	57		28	11	c
28	8	3	3	57		29	11	48
29	8	3	3	57		30	12	36
30	8	3	3	58	Little Dog South at 12	31	1	24
31	8	2	3	58	Pollux South at 12	32	2	12

Body, passing under the 12 Signs of the Zodiac.

γ Head and Face

♄
Neck and
throat
♉
Breast, sto-
mack, and
ribs
♍
Bowels
and belly
♏
Secret
members
♑
Knees



♊
Arms and
shoulders
♌
Heart and
Back
♎
Reins and
loynes
♐
Thighs
♑
Legs.

♓ the Feet

The Ram doth rule the Head and Face,
The Neck and Throat is Taurus's place.
The Twins the Arms and Shoulders guide;
The Crab, the Breast, the Spleen, and Side.
The Heart and Back's bound Leo's share;
Of Belly and Bow'ls the Maid takes care.
To Libra Reins and Loynes belong;
The Secret's to the Scorpion.
The Thighs the Archer doth affect;
The Capricorn the Knees protect.
The Legs & Aquarius lot doth fall;
The Feet to Pisces: last of all.

Thus doth the virtue of these Signs superiour,
Rule o're the bodies of poor Wights inferiour;
But both are govern'd by God's soveraign might,
He's happy then that understands them right,

Sapiens dominabitur Astis.

BOWKER, 1674.

Of the Four Parts, Seasons or Quarters of the Year.

Of the Vernal, or Spring Quarter.

UPon Tuesday the tenth of March, at four of the Clock, in the morning, the glorious Lamp of Heaven, the Sun enters into the first scruple of the Vernal Equinoctial Signe *Libra*; making the dayes and nights of equal length in all parts of the World, (except to such as live between the Poles and the Arctick, and Antartick Circles; who have continual Night some months together;) At this time the Sun hath no Declination, but is just in the Equinoctial Circle; his Amplitude of Rising is directly upon the East point of the Horizon, and his Setting on the opposite West Point; his Meridian altitude is now equal to the Complement of our Latitude, viz. 38. deg. 30 min. and his Depression at midnight equal to the Latitude it self, namely 51. deg. 30. min. with us at London. This quarter continueth till the Sun hath by his Natural motion, passed through the Signs *Aries*, *Taurus*, and *Gemini*.

The general Constitution of this quarter is hot and moist; In the beginning thereof while the Sun is in *Aries*, it is more moist than hot, the dregs of Winters moisture yet remaining; The middle, while the Sun is in *Taurus*, the heat and moisture bear equal mastery, neither being predominate; but the latter part while the Sun is in *Gemini*, he then approaching near to the Summer-Solstice, heat hath much of the moisture. ——— Of the four Elements, Aire is attributed to this Season; Of the Humours, Blood. Of

Bowker, 1674:

the Complexions, hot and moist. And of Ages, Child hood. — In this Season Melancholly persons are most healthy, and the Sanguine most subject to Sicknes. Old age is revived, and Child-hood most deject. — In this quarter, those Diseases which issue from the Blood are most dangerous, as Feavers and the like; Agues, and such as issue from Melancholly, not being so evil; these Spring Distempers being rather healthful than deadly; from hence possibly was this old saying derived, That

*An Ague in the Spring,
Is Physick for a King.*

— The diseases incident to mans body this quarter, are Fluxes, Falling-sickness, Frensies, Ulcers, Rheums, Madnes, Melancholly, Leprosies, Ring-worms, Tettors, Pusles, Blains, Pimples, Wheales and such like. And

*Now do the Birds begin to warble forth
Sweet Notes, to welcome Phebus to the North;
He to requite them, decketh, with rich Green,
All Plants and Trees; which erst were Russet seen:
And by his quickning virtue, doth produce
A new supply of all things for our use.*

Of the Æstivall or Summer Quarter.

THis quarter commenceth, when the Sun hath arrived to his utmost Northerly journey; namely, to the first minute of the Tropical Signe Cancer, then making the longest dayes and shortest nights to all the Northern Inhabitants of the World, and the contrary to those that live on the South-side of the Equinoctial, and this will happen this Year, upon St. Barnabas day, the 11th. of June, at seven of the Clock in the Morning, the Sun then entring into Cancer, and having then his greatest declination Northward, viz. 23 deg. 32 min. his amplitude of Rising and Setting being 40 deg. from the East and West Northward, for he Rises North-East half a point Easterly, and Sets North-West half a point Westerly; his Meridian altitude being 62 deg. and his

Bowker, 1674.

his Depression at Midnight only 15. deg. his Semidiurnal Ark being 8. hours 13. min. and his Seminocturnal Ark only 3 hours 47. min. So that the length of the day is 16. ho. 26. min. and the night 7. hours 34 min. This Quarter continues so long as the Sun is passing through the Signes *Cancer, Leo, and Virgo*—

The general constitution of this Quarter is hot and dry, Heat being predominate while the Sun is in *Cancer*, great drought whilst he is in *Leo*, and a moderate participation of both whilst he is in *Virgo*— Of the Four Elements; Fire is attributed to the Summer. Of the Humours, *Choller*. Of the Complexions, hot and dry; and of Ages, *Youth*— In this Season the *Phlegmatick* are most at ease; the *Cholerick* worse; the *Decripp'd* better, and *Youth* worst of all— The Diseases incident to the body of Man this Quarter, are *Feavers*, continual *Burning*, hot *Sicknesses*, *Agues*, *Vomitings*, *Running of the Eyes*, *Ulcers in the Mouth*, angry *Wheales*, causing the Ingendring of all putrifactionous Diseases.

*Now to the Fields with bearded Grain wax white,
And Husband-men o'rejoy'd to see that sight;
Up Sluggards, sleep not, make ye haste to Hay,
Whilst Titan healeth, work without delay.
For careful Husbands that intend to thrive,
Must (like the Bee) bring Honey to the Hive.*

Of the Autumnal or Harvest Quarter.

THE Sun having made his farthest Northerly journey, is now returned back again to the *Equinoctial*; and upon *Saturday*, the 12th. of *September* at Ten of the Clock in the Forenoon, enters into the first degree of the *Autumnal Equinoctial Signe Libra*; working the same Effect, as when he was in *Aries*, by constituting the *dayes* and *nights* to be of equal length; and this quarter will continue till he hath made his progress through *Libra*, *Scorpio* and *Sagittarius*, and then arriving again to his *Winter Solstice*—

The general constitution of this Quarter is cold and dry,

Bowker, 1674.

during his continuance in *Libra*, dry, while in *Scorpio*, moderately participating of cold and dry; and towards the end, while in *Sagittarius*, more cold than dry— Of the Elements, Earth is attributed to this Season; of the Humours, Melancholy; of Complexions, cold and dry, and of Ages, the Old-age—

Those that are Sanguine are now best in health, the Melancholy worst; Children somewhat better, and Old-age worst of all— This quarter those Diseases are most dangerous which issue from Melancholy; far worse than those which have their Original from Blood. And in this quarter many people do foolishly destroy their Bodies, by participating too freely of the Fruit of the Earth; which in the Season abounds more than at other times.— The Diseases incident to Mans body this quarter, are Fevers, Spleen, Consumptions of the Lungs, the Strangury, diseases in the Guts, Pains in the Hyps, Squincies, Pissick, Falling-Sicknesses, Madness, and such like.

Now Sol from his Imperial Throne descendeth,
And toward th' Antarrick Pole his Journey bendeth;
At whose departure, every Plant and Tree,
For grief doth cast aside it's braverie;
And sadly mourning, cannot like, nor thrive
Till he return, and them again revive.

Of the Hyemial, or Winter Quarter.

THIS Quarter taketh it's beginning at instant of time, that the Sun enters into the first scruple of the Tropical Signe. Capricorn; causing the shortest dayes, and the longest nights to all Northern, and the contrary to all the Southern Inhabitants throughout the World; and this happeneth this year, upon Friday, the 11th. of December, at Ten in the forenoon; the Diurnal Arch of the Sun that day being 7. ho: 34. min. and the Nocturnal 16. ho. 26. min. The amplitude of the Sun's Rising, being 40. deg. from the East and West points Southward, his Meridian altitude being onl 15 deg. which is no higher than it is Summer at 45. min. past 5. in the morning; or 20. min. after

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after 6. at night. And this quarter continues till the Sun hath passed the three Hyemniat Signs, Capricorn, Aquarius and Pisces. So returning again to his Vernal Equinoctial Signe Aries.

This Quarter in the general constitution of it, is cold and moist, at the beginning (during the Suns passage through Capricorn) it is more cold than moist, during it's residence in Aquarius; equally mixt of cold and moisture, and when in Pisces, it is more moist than cold—— Of the four Elements; Water is attributed to this Season; of the Humours, Phlegme; of the Complexions, the cold and moist; and of the ages of Man, the Decripp'd—— In this quarter it is generally observed, that those Persons that are Phlegmatick, are more subject to sickness than at other times; and chollick persons most healthy. Also in this quarter (Phlegme being predominant) Old men are indisposed and sick, when as Young men are then most active and lively—— The diseases which are incident to mans body this quarter, are Plurisies, Inflammations of the Lungs, Rheums, Coughs, Head-ach, Cathars, Apoplexies, Tumors, &c.

See how the silly Sapless Trees do shiver
For want of Kingly Sol, their comfort giver;
And how Dame Flora (in her mother Earth,)
Doth shroud her self from blustering Bores breath,
And dares not peep, until he back return;
To quicken Mortals, dead with Hyems sparne.

Concerning the temperature of the Air in these several Seasons or Quarters of the year, I have purpose-ly omitted it in this place; for that I have set down the inclination of the Air against every Day in the preceding Kalender.

Of the Eclipses this Year, 1674.

BEfore I come to a particular description of the Eclipses which will happen this year; I will declare how the Sun and Moon come to be Eclipsed. Know therefore, That the Eclipse of the Sun is no other thing than the shadow-

ing of the Light from us ; which cometh to pass by the Interposition of the Opacous body of the Moon, betwixt the Sun and our sight ; she being far nearer to us than the Sun is, which is nearer but at the Change of the Moon, when the Sun and Moon are in *Conjunction*, and so the Sun always in himself keeps his light ; but we the Inhabitants of the Earth are deprived of the enjoyment of it, until the body of the Moon be removed from betwixt our sight and the body of the Sun : So that to speak properly, the Earth and not the Sun, may be said to be *Eclipsed*.

The *Eclipse* of the Moon, is when the Earth is directly opposed betwixt the Sun and Moon ; that the bright Beams of the Sun cannot reflect upon the body of the Moon ; by reason that the Earth doth shadow her ; and so she continueth *Eclipsed*, either *Totally*, or in *Part*, until she shall acquit her self of the Cone of the Earths shadow. Now these *Eclipses* never happen but at the *Full* of the Moon ; when the Sun and Moon are in *Opposition* ; that is, in one and the same opposite deg. and min. of the *Ecliptick*. Now these *Eclipses* of the Sun may be seen in some Countries more, in some less, and in others, not at all. But the *Eclipses* of the Moon are universal, and of like quantity and continuance to all that behold her in what Country or Nation soever they dwell ; only there is a difference of *Time* when they begin and end, by reason of the difference of *Meridians*, Eastward or Westward. For to those that live Eastward of us 15. deg. the *Eclipse* begins and ends one hour sooner than it doth with us ; and to those that live Westward of us, the *Eclipse* of the Sun or Moon begins and ends an hour later than it doth with us. And let this at present suffice to be spoken concerning the Cause of *Eclipses* ; and that it may be the better remembred, it is comprised in these following Lines.

*Th' Opacous Moon by Day, obscures the Light
Of splendid Sol, from Men on Earth. By Night
The Sun opposeth her, and o're her face
Doth cast a Sable Mantle for a space.
Five Eclipses shall be noted this Year upon the superfi-*

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cies of the Terrestrial Globe, whereof three are of the Sun, and two of the Moon; those only of the Moon being visible in our Horizon.

The first visible Eclipse of the Moon.

This Eclipse will happen upon Monday, the 12th. of Jan. about 6. in the morning; it will be almost Total; And

ho. mi.

The	{	Beginning will be at —————	3.	42.	} In the		
		Middle (or greatest darkness) at —	5.	22.		} Morn-	
		End at —————	7.	02.			} ing.
		Whole duration thereof will be	3.	20.			

And the Parts Eclipsed will be 916. parts, of which the Moons body is 1000.

This Eclipse will happen to be upon, or near the Meridian of the Inhabitants of Florida, Cuba, and Peru.

The first Eclipse of the Sun, not seen of us.

This Eclipse will happen upon Monday the 25th. of Jan. at 41. min. past 8. at Night; and cannot be see of us at London, for at that time the Sun hath been Sett above 3. ho. but to the Inhabitants of The Cape of Good Hope, California, &c. it will appear visible, and be a great Eclipse.

The second visible Eclipse of the Moon.

This Eclipse will happen upon Tuesday, the 7th of July, about 8. at Night, the Moon rising partly eclipsed; For

ho. mi.

The	{	Beginning will be at —————	6	45	} In the		
		Middle (or greatest darkness) at —	8	39		} Morn-	
		End at —————	10	34			} ing.
		Whole duration will be —————	3	49			

And the parts Eclipsed, will be near equal to the Moons whole body; and so may be termed Total

The second Eclipse of the Sun not seen of us.

This Eclipse will be upon Thursday, the 23d. of July, 22 min. past 2 in the morning, and cannot be seen; for that the Sun at that time, is 2 hours below our Horizon; but to those that Navigate towards the Cape of Good Hope, and in the Oriental Ocean, may see it upon their Meridian.

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The Third Eclipse of the Sun not visible to us.

Will be upon Thursday the 17th. of December, at 14 min. past 5 in the Morning and cannot be seen of us, nor indeed much to any part of the World, for that in it felt it will be but a very small Eclipse, and so I shall say no more concerning it.

Concerning the Rising, Setting, and coming to the South, of the Moon and other Planets, when they have but little or no Latitude.

In the Kalender you have the places of the Sun and Moon for every day in the year; and of the other Planets, Saturn, Jupiter, Mars, Venus, and Mercury, for every fifth day, by which, and the help of this following Table of Right Ascensions, you may easily find when any of those Planets do Rise, Set, or come to the Meridian; and the manner how to effect it as followeth.

I. For the *Setting* of the Planets.

1. Find the Signe and Degree in which the Planet is, and by the Table following, the Right Ascension of the Point

2. Find the signe and degree in which the Sun is.

3. Subtract the Right Ascension of the Sun from the Right Ascension of the Planet, (adding 12 hours when subtraction cannot be made without it) uniting the difference.

4. This difference is the time that the Planet will be upon the Meridian, or South; if it be under 12 hours, it will be that night; but if it be above 12 hours, then the Planet comes to the South, at so many hours as you are above 12 the next morning.

Example.

I desire to know when Saturn will be South upon the 6th. of January this Year, 1674.

	d.	m.		ho.	m.
Saturn is in	9	50	♊	It's R. Ascension is	0 37
Sun is in	26	52	♋	It's R. Ascension is	19 56
24 Hours added to 0.				37 mi. Substraction	4 41
made, there rests					which

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Which is 41 min. after 4 the next morning, that Saturn will be upon the South part of the Meridian.

At what time will Venus be South upon the 1st of Novem.
 Venus is in—6 d. 3 m. \vee } their R. Af } 8 h. 26 m.
 The Sun is in—19 43 M } cension is } 1⁵ 09

Substraction being made, there rests—03 17

So that at 17 min after 3 in the afternoon, Venus will be upon the Meridian.

II. For the Rising and Setting of the Planets.

Having found the time that any Planet is South, you may find the time of his Rising or Setting in this manner.

1. You must find upon what day of the Year the Sun will be in the same Signe and Deg. that the Planet is in, when you found his Southing, and see that day, at what time the Sun sets; for that is the Semidiurnal Arch of the Planet; which being subtracted from the time of the Planets Southing, there will remain the time of the Planets Rising; and the same Semidiurnal Arch being added to the Southing, their Sun will be the time of the Planets Setting.

Example.

Upon the first of Nov. Venus is in 6 deg. 3 m. of Capricorn, and she was found to be South that deg. at 3 ho. 17 min. in the afternoon.

If you look in the Kalendar, when the Sun will be in 6 d. 3 min. of Capricorn, you will find him to be there upon the 18th. of Decemb. upon which day the Sun setteth at 3 ho. 48 m. which is the Semidiurnal Arch of Venus. Wherefore,

If you add 3 ho. 48 min. to 3 ho. 17 min. the time that Venus is South, the Sun will be 7 h 5 m. at which time Venus sets in the Evening— And if you subtract 3 h. 48 m. from 3 h. 17 m. (adding 12 h.) there will remain 11 h. 29 m. the time of Venus her Rising in the forenoon.

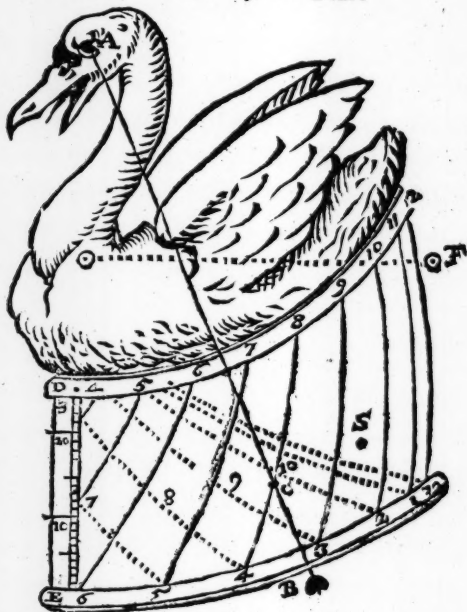
Also, upon the 6th. of Jan. Saturn was South at 4 h 41 m. in the morning; and his place that day was in 9 d. 50 m. of Aries, the Sun will be in that signe and deg. the 20th. of March; on which day the Sun sets at 6 h. 16 m. which is the Semidiurnal Arch of Saturn. Jan. the 6th. which being added to Saturns Southing, gives 10 h. 57 m. the time of

Saturns

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Saturns setting in the Forenoon. And 6 h. 16 m. being subtracted from 3 h. 17 m. his southing (12 h. being added) gives 10 ho. 25 min. the time of Saturns Rising the 6th. of January, 1674.

The Description and Use of a small portable Instrument, for the exact and ready finding of the Hour of the Day and Time of the Year.



IN the Center of the Instrument as at A, there is a fine silk String fastned, having at the other end thereof a small

small *Plummet* of brass or lead, noted with *B.* and upon the same string must be a small *Bead* or *Pins-bead*, as is signified by *C.* which bead must be to slip up and down the the string at pleasure--- by the side of the Instrument; towards the left hand, there is a short line numbred by 5. 10. 15. 20. 23 $\frac{1}{2}$. representing the 23 deg. and a half of the *Suns declination*, and this line is noted with the Letters *D.* *E---* at the bottome, and also about the middle of the Instrument, are made two *Margins*, in the uppermost is set the figures 4. 5. 6. 7. 8. 9. 10. 11. 12. and in the undermost *Margine* these figures. 5. 4. 3. 2. 1. 12. which figures are the numbers of the hours of the *Day*, and the slope lines drawn from figure to figure, are the hour-lines belonging to those numbers, as the slope-line noted at each end with 12. is the hour-line of 12, the next slope-line noted with 11 in the upper *Margine*, and with 1 in the lower *Margine*, is the hour-line of 11 and 1, signifying 11 a Clock in the Forenoon, and 1 a Clock in the Afternoon. So the next line noted with 10 and 2, represents the hours of 10 in the Forenoon, and of 2 in the Afternoon: These slope lines bend like a bow from the right hand towards the left, and are drawn with a full line thus, --- and these are called (for distinction) the *Summer bow lines*, and are in use from the 10th. of *March* till the 12th. of *Sept.* The other lines which bend like a bow from the left hand towards the right, are described by pricked lines thus, . . . and figured at each end thereof, as the other hour-lines were, and these are called the *Winter bow lines*, and are in use from the 12th of *Sept.* till the 10th. of *March*, at the Point \odot is made a small hole into which you are to stick a small pin, when you would know the hour.

The manner how to use the Instrument.

When you would know the hour of the day by the Instrument, lay the thred upon the line of declination noted with

with D.E. and knowing what declination the ☉ hath by the former Table, move the Bead which is upon the thred unto that degree of declination which the Sun hath, and so is the Bead fitted for all that day. The Bead being thus rectified, and a pin being put in the little hole at ☉, hold the Instrument in both your hands, turning your left side to the Sun, and move the Instrument up and down, till the pin which is in ☉, do cast it's shadow upon the point F. the string playing easily by the plain of the Instrument, and where the Bead resteth, that shews the hour of the day.

Now suppose that upon the 5th. day of April, when the Sun hath about 10 deg of Declination, having brought the Bead to that place, and set a pin in the hole at ☉, and held the Instrument up till the shadow of the pin fell upon the point at F. you should find the Bead to rest at the point G which is just upon the hour-line which is noted with 8 and 4, the Bead then tells you that it is either 8 of the clock in the Forenoon, or 4 of the clock in the Afternoon; and which of those hours it is, is easie to distinguish. In like manner, if it should fall upon the line noted with 10 and 2, it is either 10 in the Forenoon, or 2 in the Afternoon. Again, if the Bead should rest at S, it were then either half an hour after 9 in the Forenoon or half an hour after 2 in the Afternoon. The use is very easie; But, *Ufus optimus Magister.*

A Table of Right Ascensions for

Deg.	Aries.		Taurus.		Gemini.		Cancer.		Leo.		Virgo.	
	H	m	d	m	H	m	H	m	d	m	H	m
1	0	41	1	55	3	55	6	4	8	13	10	12
2	0	7	1	59	4	0	6	9	8	17	10	16
3	0	11	2	34	4	4	6	13	3	21	10	20
4	0	15	2	74	4	8	6	17	3	25	10	24
5	0	18	2	11	4	12	6	22	8	29	10	27
6	0	24	2	15	4	16	6	26	8	44	10	31
7	0	26	2	19	4	21	6	30	8	38	10	35
8	0	29	2	23	4	25	6	35	8	42	10	39
9	0	33	2	26	4	29	6	39	8	46	10	42
10	0	37	2	3	4	33	6	44	8	50	10	46
11	0	40	2	34	4	36	6	48	8	54	10	50
12	0	44	2	38	4	42	6	52	8	58	10	54
13	0	48	2	4	4	46	6	56	9	2	10	57
14	0	52	2	46	4	51	7	1	9	6	10	1
15	0	55	2	50	4	55	7	5	9	10	10	4
16	0	59	2	54	4	59	7	9	9	14	10	8
17	1	3	2	58	5	3	7	14	9	18	10	12
18	1	6	3	1	5	7	7	18	9	22	10	16
19	1	10	3	6	5	11	7	22	9	26	11	20
20	1	14	3	10	5	15	7	27	9	30	11	23
21	1	18	3	14	5	21	7	31	9	34	11	27
22	1	21	3	18	5	25	7	3	9	37	11	31
23	1	25	3	22	5	29	7	39	9	4	11	34
24	1	29	3	2	5	34	7	44	9	45	11	38
25	1	33	3	30	5	38	7	48	9	49	11	42
26	1	36	3	3	5	43	7	52	9	53	11	46
27	1	40	3	39	5	47	9	56	9	57	11	49
28	1	44	3	43	5	51	8	0	10	1	11	53
29	1	48	3	47	5	56	8	5	10	5	11	56
30	1	52	3	51	5	0	8	9	10	8	12	0

every Degree of the Ecliptick.

D. & C.	Libra		Scorpio		Sagittar		Capricor		Aqua.		Pisces.	
	H	m	H	m	H	m	H	m	H	m	H	m
1	12	8	13	55	15	55	18	4	20	13	22	12
2	12	7	13	59	15	0	18	9	20	17	22	16
3	12	11	14	3	16	4	18	13	20	21	22	20
4	12	15	14	7	16	8	18	17	20	25	22	24
5	12	18	14	11	16	12	18	22	20	29	22	27
6	12	22	14	15	16	16	18	26	20	34	22	31
7	12	26	14	19	16	21	18	30	20	38	22	35
8	12	29	14	23	16	25	18	35	20	42	22	39
9	12	33	14	28	16	29	18	39	20	46	22	42
10	12	37	14	30	16	33	18	44	20	50	22	46
11	12	40	14	34	16	38	18	48	20	54	22	50
12	12	44	14	38	16	42	18	52	20	58	22	54
13	12	48	14	42	16	46	18	56	21	2	23	57
14	12	52	14	46	16	51	19	1	21	6	23	1
15	12	55	14	50	16	55	19	5	21	10	23	4
16	1	59	14	54	16	59	19	9	21	14	23	8
17	13	3	14	58	17	3	19	14	21	18	23	12
18	13	6	15	1	17	8	19	18	21	22	23	16
19	13	10	15	6	17	12	19	22	21	26	23	20
20	13	14	15	10	17	16	19	27	21	30	23	23
21	13	18	15	14	17	21	19	31	21	34	23	27
22	13	21	15	18	17	25	19	34	21	37	23	31
23	13	26	15	22	17	29	19	39	21	41	23	34
24	13	29	15	26	17	34	19	49	21	45	23	38
25	13	33	15	30	17	38	19	48	21	49	23	42
26	13	36	15	34	17	43	19	52	21	53	23	46
27	13	40	15	39	17	47	19	56	21	57	23	49
28	13	44	15	43	17	51	20	0	22	1	23	53
29	13	48	15	47	17	55	20	5	22	5	23	56
30	13	52	15	51	18	0	20	9	22	8	24	0

A T

The Number of Tears to be Purchased

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A Table for the Purchase of Leases or Annuities, at 5l. 6l. 8l. and 10l. Per Cent.

	At 5 Per Cent,		At 6 Per Cent,		At 8 per Cent,		At 10 Per Cent,	
	Years Mon		Years Mon		Years Mon		Years Mon	
1	0	11	0	11	0	11	0	11
2	1	10	1	10	1	9	1	9
3	2	9	2	8	2	7	2	6
4	3	7	3	6	3	4	3	2
5	4	4	4	3	4	0	3	9
6	5	1	5	11	5	7	4	4
7	5	9	6	7	6	2	5	11
8	6	6	6	10	7	9	6	4
9	7	9	7	4	8	8	7	5
10	8	4	8	11	9	9	8	3
11	9	5	9	10	10	2	9	6
13	10	5	10	9	11	7	10	1
15	11	3	11	6	12	1	11	7
17	12	1	12	2	13	0	12	0
19	12	10	13	9	14	0	13	4
21	13	6	14	4	15	4	14	1
23	14	1	15	9	16	8	15	3
25	14	2	16	3	17	11	16	4
27	15	2	17	7	18	2	17	9
39	15	7	18	11	19	4	18	6
31	17	1	19	1	20	11	19	9
41	18	3	20	9		11	20	10
51	18	11		16		3		11
61	19	4		16		4		10
71	19	7		16		5		10
81	19	9		16		6		10
91		0		16		6		10
Rec.	20					6		10

The Number of Years to be Purchased

The Value of the Purchase in

The Value of the Purchase in

The Value of the Purchase

The Value of the Purchase in

Bowker, 1674.



The Use of the foregoing TABLE.

WHAT is a Lease or Annuity for 51 Years
to come, worth in Ready Money, at 5
Per Cent.

Look in the first Column for 51 Years, and right
against it under 5 *Per Cent*, you shall find Eight
Years and Three Months; and so much it is worth
at 5 *l. Per Cent.* But

At { 6 <i>l.</i> }	<i>Per Cent</i> , the	{ 15 Years, 3 Months.
{ 8 }	Lease would	{ 12 Years, 3 Months.
{ 10 }	be worth	{ 9 Years, 11 Months.

And so for any other Number of Years.

F I N I S.
